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CLAIMS

- 1) Method of manufacturing and assembling, in function of the desired configurations, a volumetric compressor (1; 50; 60; 70; 80) of the type comprising a pair of rotors (2) cooperating with each other and housed inside a compressor body (3),
- 5 said compressor body having a first flange (4) arranged on the suction side of said compressor body (3) and a second flange (5) arranged on the delivery side of said compressor body (3), said first flange (4) being suited to be coupled with a suction head (6, 7) and said second flange (5) being suited to be coupled with a delivery head (8, 9) of said volumetric compressor (1),
- 10 **characterized by comprising** the following operations:
- manufacturing a first suction head (6) comprising a coupling element (12) to a suction pipe, and
 - manufacturing a second suction head (7) comprising a coupling element (13) for connection to a suction pipe in combination with a motor unit (14),
 - 15 - each of said first and second suction heads (6, 7) being provided with a first counterflange (10, 11), suited to be connected with said first flange (4) of said compressor body (3);
 - manufacturing a first delivery head (8) comprising a coupling element (17) to a delivery pipe, and
 - 20 - manufacturing a second delivery head (9) comprising a coupling element (18) for connection to a delivery pipe in combination with an oil separator (19),
 - each of said first and second delivery heads (8, 9) being provided with a second counterflange (15, 16) suited to be connected with said second flange (5) of said compressor body (3);
 - 25 - coupling said first flange (4) of said compressor body (3) with said counterflange (10, 11) of any of these first or second suction heads (6, 7);
 - coupling said second flange (5) of said compressor body (3) with said counterflange (15, 16) of any of these first or second delivery heads (8, 9).
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- 2) Volumetric compressor (60) according to the method of claim 1), **characterized in that** said first suction head (6) comprises a coupling element (12) for connection to a suction pipe, and said second delivery head (9) comprises a coupling element (17) for connection to a delivery pipe.
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3) Volumetric compressor (70) according to the method of claim 1), **characterized in that** said first suction head (6) comprises a coupling element (12) for connection to a suction pipe, and said first delivery head (8) comprises a coupling element (18) for connection to a delivery pipe in combination with an oil separator (19).

4) Volumetric compressor (80) according to the method of claim 1), **characterized in that** said second suction head (7) comprises a coupling element (13) for connection to a suction pipe in combination with a motor unit (14), and said second delivery head (9) comprises a coupling element (17) for connection to a delivery pipe.

5) Volumetric compressor (50) according to the method of claim 1), **characterized in that** said second suction head (7) comprises a coupling element (13) for connection to a suction pipe in combination with a motor unit (14), and said first delivery head (8) comprises a coupling element (18) for connection to a delivery pipe in combination with an oil separator (19).

6) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (12, 13) for connection to a suction pipe is constituted by a suction valve.

7) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (12, 13) for connection to a suction pipe is constituted by a suction coupling.

8) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (17, 18) for connection to a delivery pipe is constituted by a delivery valve.

9) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** said coupling element (17, 18) for connection to a delivery pipe is constituted by a delivery coupling.

10) Volumetric compressor (1; 50; 80) according to the method of claim 1), **characterized in that** said motor unit (14) is of the semi-hermetic type.

11) Volumetric compressor (1; 50; 60; 70; 80) according to the method of claim 1), **characterized in that** it comprises fastening means (21) suited to permanently connect said first and second flange (4, 5) to said first and second counterflange (10, 11, 15, 16), respectively.

12) Volumetric compressor (1; 50; 60; 70; 80) according to claim 11),

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characterized in that said fastening means (21) are constituted by screws.

13) Volumetric compressor (1; 50; 80) according to the method of claim 1, characterized in that said motor unit (14) is constituted by an electric motor.

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